

ABSTRACT OF THE DISCLOSURE

An optical disk device that records and reproduces information on/from a recordable optical disk is provided. The optical disk device comprises a  
5 reference clock signal generating unit generating a data-writing reference clock signal used to obtain a data-writing timing upon recording data to the optical disk, a synchronizing signal generating unit generating a predetermined sector synchronizing signal from the  
10 data-writing reference clock signal, a data demodulating unit reading address information indicating a position on the optical disk from data recorded on the optical disk so as to demodulate the address information into a predetermined synchronizing signal, a displacement  
15 detecting unit detecting a displacement between a phase of the sector synchronizing signal and a phase of the synchronizing signal; and a data-writing control unit controlling a data-writing upon performing an additional recording to the optical disk by controlling a  
20 revolution of the optical disk dynamically according to the displacement.